

Commonwealth of Kentucky
Division for Air Quality
EXECUTIVE SUMMARY

FINAL

Conditional Major / Operating

Permit: F-07-008

Saturn Machine and Welding

Sturgis , KY 42459

April 25, 2007

Sandra M. Cooke, Reviewer

SOURCE ID: 21-225-00028

SOURCE A.I. #: 4079

ACTIVITY ID: APE20040001

SOURCE DESCRIPTION:

Saturn Machine & Welding, Inc. designs and fabricates coke oven equipment. Various steels are cut, machined and welded to fabricate the equipment. The finished equipment is then sandblasted and painted. Operations consist predominately of equipment that heats parts to the required temperature. After a predetermined period of time the metal parts are placed in a quench tank and cooled slowly to attain the desired hardness. Vapors from the quench tank are emitted from a forced air vent in the side of the building.

Hazardous and toxic emissions result from all welding, cutting, painting, and washing operations. The potential emission of xylene is 33.46 TPY. To preclude Title V and MACT applicability, the permittee has taken a voluntary limit of 9 tons per year for any individual HAP and maximum total of combined HAPs emissions under 20 tons in a rolling 12-month period. If the permittee exceeds these limits, the facility will become subject to 40 CFR PART 63, NATIONAL EMISSION STANDARDS FOR HAZARDOUS AIR POLLUTANTS FOR SOURCE CATEGORIES, Subpart Mmmm, National Emission Standards for Hazardous Air Pollutants for Surface Coating of Miscellaneous Metal Parts and Products, and must comply with all requirements of this subpart.

PUBLIC, EPA, AND AFFECTED STATE REVIEW:

On February 14, 2007 the public notice on availability of the draft permit and supporting material for comments by persons affected by the plant was published in *The Advocate* in Union County, Kentucky. In addition, notification of the impending issuance of the draft permit was sent to the U.S. EPA on February 7, 2007 via e-mail. No states are affected by this permit action. The public comment period expired 30 days from the date of publication. No comments were received during this period. The permit is now being issued as final.